

LAND APPLICATION SITE

W C ALLEN SITE

LUWCA 1-9

LUNENBURG COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11/24/14 between W.C. Allen referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	<u>20-A-24</u>	<u>20-A-20</u>	<u>20-20-14</u>
	<u>20-A-23</u>	<u>20-A-19</u>	

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

X W.C. Allen _____
Landowner - Printed Name, Title Signature

11-24
Mailing Address & Phone Number

434 696 2479 2910 Nottoway Rd
Upton VA 23074

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Stanko _____
Permittee - Authorized Representative Signature
Printed Name

PO Box 562 Remington, Virginia 22734
Mailing Address

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11/24/14 between Barbara Allen referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lumburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	<u>20-A-24</u>	<u>20-A-20</u>	
	<u>20-A-23</u>	<u>20-A-19</u>	

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 36 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No

Barbara Allen
Landowner - Printed Name, Title

[Signature]
Signature

11-24 2910 National Rd
Victoria VA 2324
Mailing Address & Phone Number
434-696-2479

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

ST Dubois
Permittee - Authorized Representative
Printed Name

[Signature]
Signature

PO Box 562 Remington, Virginia 22734
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recvc Systems, Inc

County or City: humburg

Landowner: Barbara Allen

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Barbara Allen
Landowner's Signature

11-24
Date

Farm Operator Signature

Mailing Address & Phone Number

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11/24/14 between Timothy Wallen referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lumbersburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	20-A-24		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Water treatment residuals</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Food processing waste</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Other industrial sludges</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<div style="display: flex; justify-content: space-between;"> <div> <u>Timothy Wallen</u> Landowner - Printed Name, Title </div> <div> <u>[Signature]</u> Signature </div> <div> <u>2910 Nuttall RDA Victoria VA 22974</u> Mailing Address & Phone Number <u>434 696 2479</u> </div> </div>			

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>[Signature]</u> Permittee - Authorized Representative Printed Name	<u>[Signature]</u> Signature	<u>PO Box 562 Remington, Virginia 22734</u> Mailing Address
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VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Hammettsburg

Landowner: Timothy W Allen

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Timothy W Allen
Landowner's Signature

11-24
Date

Farm Operator Signature

Mailing Address & Phone Number

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 4/19/14 between Charles E. Allen referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
	<u>20-20-1A</u>		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Charles E. Allen
Landowner - Printed Name, Title

Charles E. Allen
Signature

Providence Rd
Richmond VA
Mailing Address & Phone Number
434-696-2479

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]
Permittee - Authorized Representative
Printed Name

[Signature]
Signature

PO Box 562 Remington, Virginia 22734
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: humboldt

Landowner: Charles E. Allen

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Charles E. Allen
Landowner's Signature

11-19-14
Date

Farm Operator Signature

Mailing Address & Phone Number

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 1/20/21 between Victor T Allen referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Lumburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	20-A-19		
	20-A-20		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.


In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

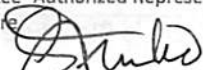
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Victor T Allen</u>	Mailing Address <u>America VA 23001</u>	Landowner Signature 
By: <u>self</u>	<u>8925 Military Rd</u>	
Title* <u>Owner</u>	Phone No. <u>804 624-2198</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: humboldt

Landowner: Victor T Allen

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Victor T Allen
Landowner's Signature

11/20/21
Date

Victor T Allen
Operator's Signature

mailing address & phone

11/20/21
Date

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock Shallow	Surf/Leach	Freq Flood			
LUWCA 1	14.7	-	-	-	-	CM06	TM20A,P24, 25	912
LUWCA 2	19.1	-	-	-	-	CM06	TM20A,P24, 25	912
LUWCA 3	9.1	-	-	-	-	CM06	TM20A,P24, 25	912
LUWCA 4	23.9	-	-	-	-	CM06	TM20A,P24, 25	912
LUWCA 5	32.9		-	=	=	CM06	TM20A,P20	912
LUWCA 6	44.5	6	=	6	=	CM06	TM20A,P20	912
LUWCA 7	56.0	6	-	6	-	CM06	TM20A,P19, 20	912
LUWCA 8	22.6	-	-	-	-	CM06	TM20(5),P1-4, TM20(11),P1,2	912
LUWCA 9	59.2	6,3B,12B,12C2	=	6	=	CU02	TM20(2),P1A	1052
TOTAL ACRES IN SITE	282.0							

Recyc Systems, Inc

W.C. Allen Site

County	Owner	Operator	FSA Tract No.	Recyc Field No.	Acres	Date of Last Application
Lumenburg	W.C. Allen	W.C. Allen	T912 Field 1	LUWCA 1	14.7	11/05
			T912 Field 2	LUWCA 2	19.1	11/05
			T912 Field 4	LUWCA 3	9.1	11/05
			T912 Field 3	LUWCA 4	23.9	11/05
			T912 Field 10	LUWCA 5	32.9	12/05
			T912 Field 9	LUWCA 6	44.5	12/05
			T912 Fields 5,6,12	LUWCA 7	56	09/08
			T912 Fields 14,15	LUWCA 8	22.6	12/05
			T1052 Fields 1,2	LUWCA 9	59.2	09/08

Report Number:

R08205-0005

Account Number:

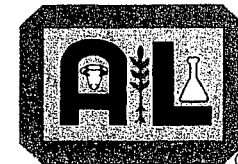
70594

A&L EASTERN LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237-2214

Phone (804) 743-9401 • Fax (804) 271-6446

Website: www.al-labs-eastern.com • E-mail: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: W C ALLEN
LUNENBURG

Submitted By: C CARLO

Farm I D:

Field I D:

SOIL ANALYSIS REPORT

Page: 1

Date Received: 7/23/2008

Date of Analysis: 7/24/2008

Date of Report: 7/25/2008

Analytical Method(s):
Mehlich III

Sample Number	Lab Number	Organic Matter		Phosphorus		Potassium		Magnesium		Calcium		Sodium		pH		Acidity		C.E.C.						
		%	ENR lbs/A Rate	Available ppm Rate	Reserve ppm Rate	K ppm Rate	MG ppm Rate	CA ppm Rate	NA ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g											
LUWCA-7	3378	4.3	12 125 M M	151	VH	86	M	205	H	970	M			6.0	68	12	80							
LUWCA-9	3379	3.6	11 115 M M	33	M	59	L	80	M	280	VL			4.6	67	26	49							
Sample Number	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N		SO4-S		ZN		MN		FE		CU		B		ms/cm Rate	CL		AL	
						ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate		ppm	Rate	ppm	Rate
LUWCA-7	2.8	21.3	60.5		15.4																			
LUWCA-9	3.1	13.7	28.8		54.3																			

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by A & L EASTERN LABORATORIES, INC.

by: *Paul Chu*
Paul Chu, Ph.D.

Report Number:
R08205-0005
Account Number:
70594

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To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

For: W C ALLEN
LUNENBURG

Copy To: C CARLO

Date Received: 007/23/2008
Date Reported: 007/25/2008

SOIL FERTILITY RECOMMENDATIONS

Page: 1

Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P2O5 lb/A	Potash K2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
LUWCA-7	Adj pH To 6.8		1.3	0	0	0	0						
LUWCA-9	Adj pH To 6.8		2.5	0	0	0	0						

Sample LUWCA-9: Apply dolomitic lime to raise pH and improve the magnesium level.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."
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A&L Eastern Laboratories, Inc.

Paul Chu
Paul Chu, Ph.D.

Report Number:

2005-R063-055

Account # 70594

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®

Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: W C ALLEN
LUNENBURG

Samples Submitted By:
H MOODY

SOIL ANALYSIS REPORT

Analytical Method:
Ammonium Acetate, Bray-P

Page: 1

Date Received: 03/03/2005

Date of Analysis: 03/04/2005

Date of Report: 03/07/2005

Page: 1

Date Received: 03/03/2005

Date of Analysis: 03/04/2005

Date of Report: 03/07/2005

Ammonium Nitrate

Sample Number	Lab Number	Organic Matter			Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C.					
		%	ENR lbs/A		Available ppm	Reserve Rate	K ppm	MG Rate	CA Rate	NA Rate	Soil pH	Buffer Index	H meq/100g	meq/100g					
LUWCA-1	03751	3.5	111	H	33	H	76	VH	35	VL	109	H	1110	VH		6.9		0.1	6.6
LUWCA-2	03752	3.0	103	M	19	M	34	M	125	VH	114	VH	530	M		5.9	6.85	0.8	4.7
LUWCA-3	03753	2.9	102	H	11	L	20	L	62	M	68	M	480	M		5.7	6.85	0.8	4.0
LUWCA-4	03754	2.6	96	M	6	VL	10	VL	77	M	91	VH	480	M		5.8	6.85	0.8	4.1
LUWCA-5	03755	3.6	114	H	45	VH	60	VH	101	H	65	L	320	VL		5.1	6.61	3.2	5.6

Sample Number	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N ppm	SO4-S Rate	ZN Rate	MN Rate	FE Rate	CU Rate	B Rate		ms/cm Rate	CL Rate	AL Rate
LUWCA-1	1.4	13.7	83.6		1.4										
LUWCA-2	6.8	20.1	56.0		17.1										
LUWCA-3	4.0	14.3	60.6		21.1										
LUWCA-4	4.8	18.3	57.9		19.0										
LUWCA-5	4.6	9.7	28.6		57.1										

This report applies to the sample(s) tested. Samples are not

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by:

C. Norman Jones
C. Norman Jones

Report Number:
2005-R063-055
Account # 70594

A&L EASTERN AGRICULTURAL LABORATORIES, INC.

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Fax No. (804) 271-6446 • Email: office@al-labs-eastern.com



(B)

Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22774

Grower: W C ALLEN
LUNENBURG

Samples Submitted By:
H MOODY

SOIL ANALYSIS REPORT

Analytical Method:
Ammonium Acetate, Bray-P

Page: 2

Date Received: 03/03/2005 Date of Analysis: 03/04/2005 Date of Report: 03/07/2005

Page: 2

Date Received: 03/03/2005 Date Analyzed: 03/04/2005 Date Reported: 03/07/2005

Report: 03/07/2005

Sample Number	Lab Number	Organic Matter		Phosphorus		PQR #/lb	Magnesium	Calcium	Sulfur	pH		Acidity	C.E.C.
		%	E% k#A	Av# lb/A	R# g/l	K ppm Rate	MG ppm Rate	Wry ppm Rate	NA ppm Rate	gall pH	Buffer ind	H meq/100	
LUWCA6	0375	3.8	117 HH	53 VH	69 VH	97 M	123 VH	630 M		5.5	678	1.5	60
LUWCA7	0377	3.3	109 MM	52 VH	83 VH	26 VL	105 VH	750 HH		6.5	689	0.4	5.1
LUWCA8	0378	2.5	96 HH	8 VL	14 L L	31 L L	41 L L	310 M		5.2	683	1.0	3.0
LUWCA9	0379	2.2	88 M	32 HH	40 MM	107 VH	50 L L	240 V/L		5.0	667	26	45

Sample Number	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N ppm Rate	SO4-S ppm Rate	ZN ppm Rate	MN ppm Rate	FE ppm Rate	CU ppm Rate	B ppm Rate		ms/cm Rate	CL ppm Rate	AL ppm Rate
LUWCA-6	4.2	17.2	52.9		25.8										
LUWCA-7	1.3	17.3	74.0		7.4										
LUWCA-8	2.7	11.4	51.8		34.1										
LUWCA-9	6.1	9.3	26.7		57.9										

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by: A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by:

C. Norman Jones
C. Norman Jones

Report Number:
2003-R227-033
Account # 70594

A&L EASTERN AGRICULTURAL LABORATORIES, INC.

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Fax No. (804) 271-6446 • Email: office@al-labs-eastern.com



Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: W C ALLEN
LUNENBURG CO

Samples Submitted By:
SONNY DEAL

SOIL ANALYSIS REPORT

Analytical Method:

Ammonium Acetate, Bray-P

Page: 1 Date Received: 08/14/2003 Date of Analysis: 08/15/2003 Date of Report: 08/18/2003 Ammonium

Sample Number	jNawlk Number	Organic Matter		Phosphorus J 1		Potassium		Calcium		Sodium		pH		Acidity C.E.C. C.E.G.					
		%	ENR lbs/A	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	Sol. pH	4^ But M^ r Index	H^ ffleq/n O g^ meq/100 g			
LUWCA-1	18764	4.1	12	124	HH	47	VH	70	VH	45	LL	123	VH	750	MM	6.1	6.85	08	57
LUWCA-2	18765	3.1	10	105	MM	12	LL	24	LL	82	MM	112	VH	600	MM	57	6.82	11	52
LUWCA-3	18766	34	10	109	HH	7	VL	13	LL	100	MM	151	VH	730	MM	60	6.84	09	61
LUWCA-4	18767	33	10	109	MM	6	VL	10	VL	124	VH	94	HH	550	MM	58	6.84	09	48
LUWCA-5	18768	4.1	12	124	HH	5	VL	9	VL	102	HH	118	VH	650	MM	57	6.81	12	57

Sample Number	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N ppm	SO4-S ppm	ZN ppm	MN ppm	FE ppm	CU ppm	B ppm	ms/cm	CL ppm	AL ppm
LUWCA-1	2.0	18.1	662		13.7										
LUWCA-2	4.0	17.8	57.1		21.1										
LUWCA-3	4.2	20.6	598		15.4										
LUWCA-4	6.7	16.5	578		19.0										
LUWCA-5	4.6	17.3	57.1		21.1										

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by: A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by:

C. Norman Jones
C. Norman Jones

Report Number:
2003-R227-033
Account # 70594

A&L EASTERN AGRICULTURAL LABORATORIES, INC.

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Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: W C ALLEN
LUNENBURG CO

Samples Submitted By:
SONNY DEAL

SOIL ANALYSIS REPORT

Page: 2 Date Received: 08/14/2003 Date of Analysis: 08/15/2003 Date of Report: 08/18/2003

Analytical Method:
Ammonium Acetate, Bray-P

Sample Number r/c A	Lab Number	Organic Matter		Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C.		
		%	ENR% 6sVA	Available ppm R Rate	Reserve ppm Rate	K ppm Rate	MG ppm Rate	CA ppm Rate	NA ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g		
LUWCA-1870	1870	3.3	109 MM	6 VL	10 VL	100 H	82 H	550 M		5.7	6.8	10	4.7		
LUWCA-1870	1870	4.2	127 H	7 VL	11 VL	60 LL	105 VH	550 M		5.5	6.80	13	5.1		
LUWCA-1871	1871	3.7	117 H	8 VL	14 LL	74 M	96 H	520 M		5.4	6.79	14	5.0		
LUWCA-1872	1872	3.1	107 H	8 VL	12 LL	63 M	73 H	370 LL		5.3	6.8	12	5.0		
Sample Number;	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N# ppm Rate	504-S ppm Rate	ZN ppm Rate	MNI ppmV Rate	FE; ppm Rate	CUU ⁺ ppmJfSRat	Y B ppm Rate	ms/cm Rate	CU ppm Rate	AL ppm Rate
LUWCA-1870	5.5	14.6	58.8		21.1										
LUWCA-1870	3.0	17.2	54.0		25.8										
LUWCA-1870	3.8	11.0	51.9		28.3										
LUWCA-1870	4.3	16%	48.7		31.0										

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:
A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by:

C. Norman Jones

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2009-Winter, 2010)
W. C. Allen
Planner: Recyc Systems, Inc.

Tract: 1052 Location: Lumburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1, 2/LUWCA01(N)	59/59	2009	Orchardgrass hay mt.	70-50-110	0/0				70-50-110	N/A			
		2010	.....	70-50-110	0/0				70-100-220	N/A			

Tract: 912 Location: Lumburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/LUWCA01(N)	15/15	2009	Orchardgrass hay mt.	70-40-130	0/0				70-40-130	N/A			
		2010	.....	70-40-130	0/0				70-80-260	N/A			
2/LUWCA02(N)	19/19	2009	Grass Pasture	50-80-0	0/0				50-80-0	N/A			
		2010	.....	50-80-0	0/0				50-160-0	N/A			
4/LUWCA03(N)	9/9	2009	Orchardgrass hay mt.	70-60-110	0/0				70-60-110	N/A			
		2010	.....	70-60-110	0/0				70-120-220	N/A			
3/LUWCA04(N)	24/24	2009	Grass Pasture	50-100-80	0/0				50-100-80	N/A			
		2010	.....	50-100-80	0/0				50-200-160	N/A			
10/LUWCA05(N)	33/33	2009	Orchardgrass hay mt.	70-40-95	0/0				70-40-95	N/A			
		2010	.....	70-40-95	0/0				70-80-190	N/A			
9/LUWCA06(N)	45/45	2009	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
		2010	.....	50-0-40	0/0				50-0-80	N/A			
5, 6, 12/LUWCA07(1P)	56/56	2009	Orchardgrass hay mt.	70-0-95	0/0				70-0-95	42			
		2010	.....	70-0-95	0/0				70-0-190	83			
14, 15/LUWCA08(N)	23/23	2009	Grass Pasture	50-40-70	0/0				50-40-70	N/A			
		2010	.....	50-40-70	0/0				50-80-140	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

W. C. Allen Narrative

The W.C. Allen Farm is located in Lunenburg County. The farm consists of hayland and pasture for their cow calf operation.

This partial plan is written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P205	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1052	LUWCA09	59	2008-Su	M (33 P ppm)	M- (59 K ppm)	A&L Mill	4.6		
912	LUWCA01	15	2005-Wi	H (33 P ppm)	L (35 K ppm)	A&L (Weak Bray)	6.9		
912	LUWCA02	19	2005-Wi	M (19 P ppm)	H- (125 K ppm)	A&L (Weak Bray)	5.9		
912	LUWCA03	9	2005-Wi	M- (11 P ppm)	M- (62 K ppm)	A&L (Weak Bray)	5.7		
912	LUWCA04	24	2005-Wi	L+ (6 P ppm)	M (77 K ppm)	A&L (Weak Bray)	5.8		
912	LUWCA05	33	2005-Wi	H- (45 P ppm)	M (101 K ppm)	A&L (Weak Bray)	5.1		
912	LUWCA06	45	2005-Wi	H (53 P ppm)	M (97 K ppm)	A&L (Weak Bray)	5.5		
912	LUWCA07	56	2008-Su	VH (151 P ppm)	M (86 K ppm)	A&L Mill	6.		
912	LUWCA08	23	2005-Wi	L+ (8 P ppm)	L (31 K ppm)	A&L (Weak Bray)	5.2		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1052	1052/1, 2	LUWCA09	59	Cecil	IVb	IV	Not Suited	IV	
912	912/1	LUWCA01	15	Georgeville	IVb	IV	III	IV	
	912/2	LUWCA02	19	Georgeville	IVb	IV	III	IV	
	912/4	LUWCA03*	9	Georgeville	IVb	IV	III	IV	High Slope
	912/3	LUWCA04	24	Georgeville	IVb	IV	III	IV	
	912/10	LUWCA05	33	Herndon	IVb	IV	III	IV	
	912/9	LUWCA06	45	Georgeville	IVb	IV	III	IV	
	912/5, 6, 12	LUWCA07*	56	Georgeville	IVb	IV	III	IV	High Slope
	912/14, 15	LUWCA08	23	Georgeville	IVb	IV	III	IV	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2009 - Winter, 2010

Farm Name: W. C. Allen

Location: Lunenburg

Specialist: Recyc Systems, Inc.

Tract Name: 1052

FSA Number: 1052

Location: Lunenburg

Field Name: LUWCA09

Total Acres: 59.20 Usable Acres: 59.20

FSA Number: 1, 2

Tract: 1052

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2008	4.6	M(33 P ppm)	M-(59 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	1C2	Appling
3	3B	Bolling

3	4B	Caroline
36	5B2	Cecil
6	5C2	Cecil
18	6	Augusta Chewacla Toccoa
4	12B	Iredell
6	12C2	Iredell
22	19D2	Pacolet

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	2.4 tons	Orchard grass (hay), maint. - No Till
2010-Sp	2.4 tons	Orchard grass (hay), maint. - No Till

Tract Name: 912
FSA Number: 912
Location: Lunenburg

Field Name: LUWCA01
Total Acres: 14.70 **Usable Acres:** 14.70
FSA Number: 1
Tract: 912
Location: Lunenburg
Slope Class: B **Hydrologic Group:** B

Riparian buffer width: 0 ft
 Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	6.9	H(33 P ppm)	L(35 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOI	SOIL SERIES
3 1C	1C2	Appling	Appling
10 5B	5B2	Cecil	Cecil
85 8B	8B2	Georgville	Georgville
2 8C	8C2	Georgville	Georgville

Field Warnings:**Crop Rotation:**

PLANTED	YIELD	CROP NAME
2009-Fa	2.6 tons	Orchard grass (hay), maint. - No Till
2010-Sp	2.6 tons	Orchard grass (hay), maint. - No Till

Field Name: LUWCA02

Total Acres: 19.10 Usable Acres: 19.10

FSA Number: 2

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.9	M(19 P ppm)	H-(125 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
63	8B2	Georgeville
19	8C2	Georgeville
18	21D2	Tatum

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	1.7 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till
2010-Sp	1.7 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: LUWCA03

Total Acres: 9.10 Usable Acres: 9.10

FSA Number: 4

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.7	M-(11 P ppm)	M-(62 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
57	8B2	Georgeville
1	8C2	Georgeville
42	21D2	Tatum

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	2.6 tons	Orchard grass (hay), maint. - No Till
2010-Sp	2.6 tons	Orchard grass (hay), maint. - No Till

Field Name: LUWCA04

Total Acres: 23.90 Usable Acres: 23.90

FSA Number: 3

Tract: 912

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.8	L+(6 P ppm)	M(77 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
62	8B2	Georgeville
33	8C2	Georgeville
2	11C2	Herndon

3

21D2 Tatum

Field Warnings:**Crop Rotation:**

PLANTED	YIELD	CROP NAME
2009-Fa	1.8 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till
2010-Sp	1.8 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: LUWCA05

Total Acres: 32.90 Usable Acres: 32.90

FSA Number: 10

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.1	H-(45 P ppm)	M(101 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
1	6 Augusta	Augusta Chewacla Toccoa
32 8B	8B2 Georgia	Georgieville
66 11C	11C2 Heddon	Heddon
1 17D	17D2 Nelson	Nelson

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	2.1 tons	Orchard grass (hay), maint. - No Till
2010-Sp	2.1 tons	Orchard grass (hay), maint. - No Till

Field Name: LUWCA06

Total Acres: 44.50 Usable Acres: 44.50

FSA Number: 9

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.5	H(53 P ppm)	M(97 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
13	6 August	Augusta Chewacla Toccoa
28	8B2	Georgville
20	8C2	Georgville
10	11B2	Hilledon
18	11C2	Hilledon
5	16C2	Milledgeburg
6	17D2	Nelson

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	2.7 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till
2010-Sp	2.7 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: LUWCA07

Total Acres: 56.00 Usable Acres: 56.00

FSA Number: 5, 6, 12

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Su-2008	6.0	VH(151 P ppm)	M(86 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOI	SOIL SERIES
1	5B2	Cecil	Cecil
5	6	Augusta	Augusta Chewacla Toccoa
34	8B2	Georgville	Georgville
7	8C2	Georgville	Georgville
13	11C2	Heddon	Heddon
8	19D2	Patulet	Patulet
32	21D2	Tatum	Tatum

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Fa	2.5 tons	Orchard grass (hay), maint. - No Till
2010-Sp	2.5 tons	Orchard grass (hay), maint. - No Till

Field Name: LUWCA08

Total Acres: 22.60 Usable Acres: 22.60

FSA Number: 14, 15

Tract: 912

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2005	5.2	L+(8 P ppm)	L(31 K ppm)	A&L (Weak Bray)

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	5B2	Cecil
35	8B2	Georgeville
23	11C2	Herndon
20	8C2	Georgeville
7	21D2	Tatum

Field Warnings:

Crop Rotation:

PLANTED	YIELD
2009-Fa	2.0 acres/AU
2010-Sp	2.0 acres/AU

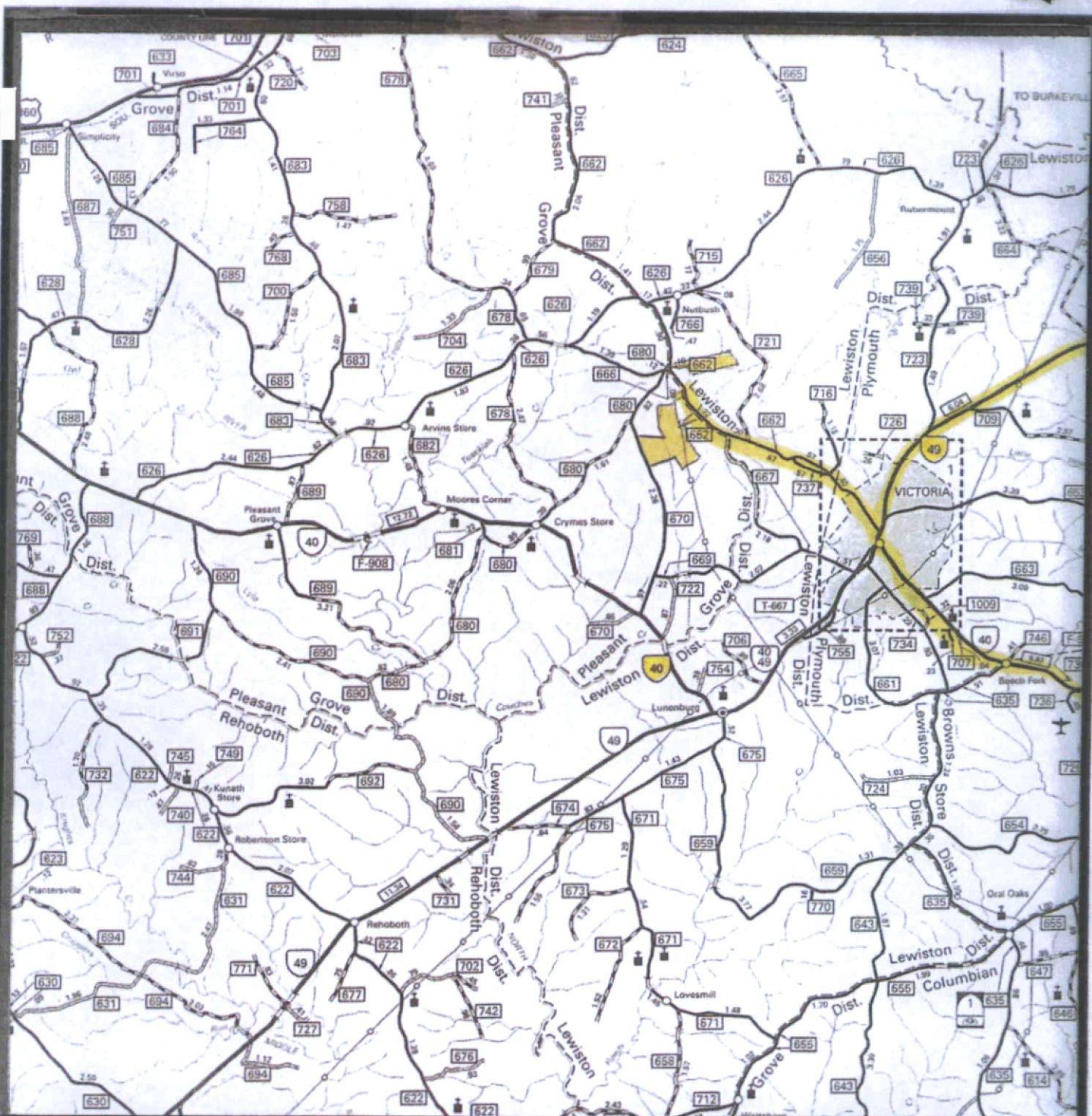
CROP NAME

Orchard grass/fescue pastures<=25% legume, maint. - No Till
Orchard grass/fescue pastures<=25% legume, maint. - No Till

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2 miles

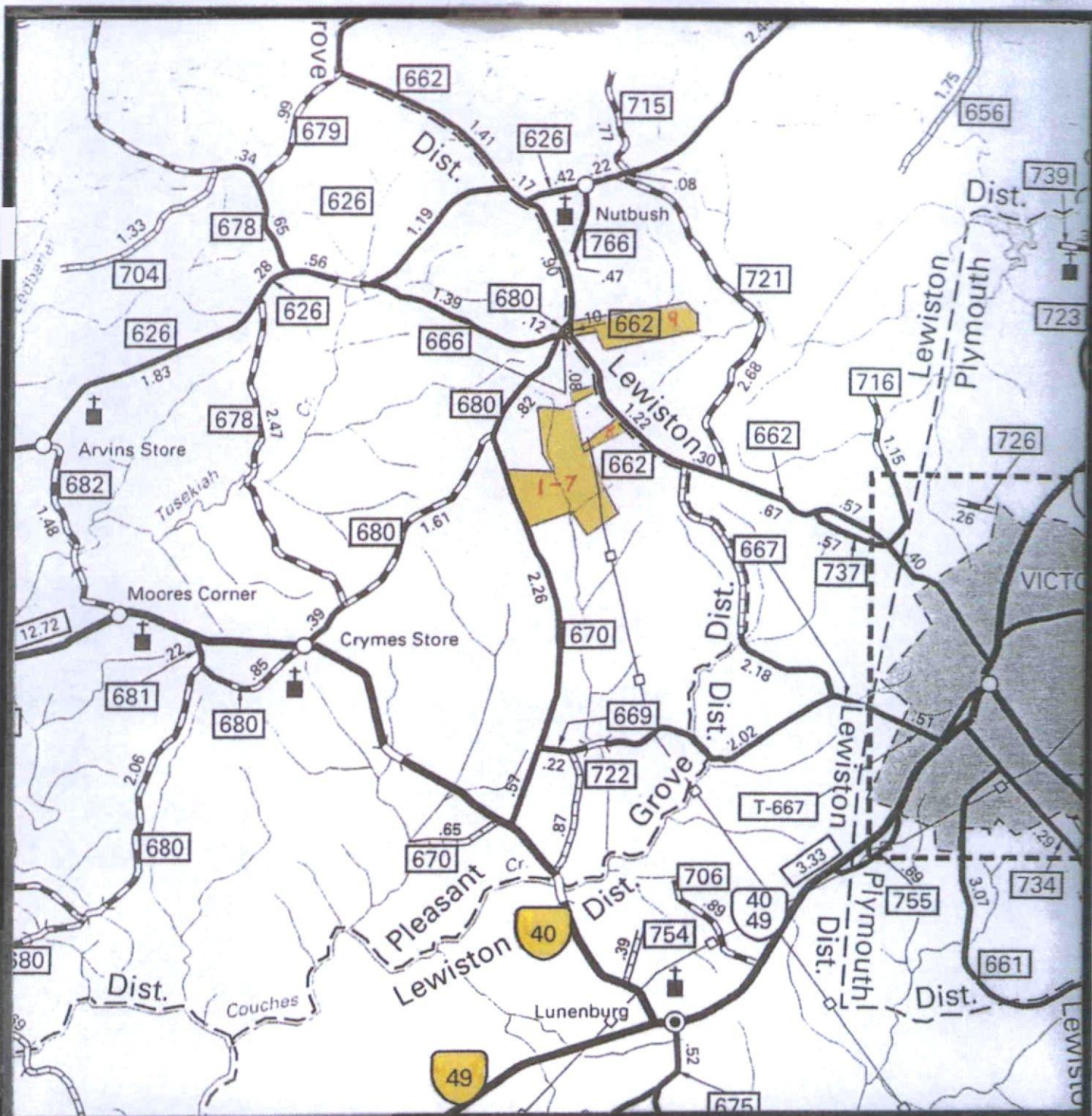
LUWCA 1-9

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

LUWCA 1-9

VICINITY MAP



(Biosolids Land Application)



LUWCA 1-9

TAX MAP



ADJOINING LANDOWNERS

W.C. Allen Site

LUNENBURG COUNTY

Tax Map No.	Parcel No.	Owner(s) Name
20	4D	Cecil B. Underwood or Mavis P.
20	17	Billy S. Smith, Jr.
20	18	Billy S. Smith, Jr. & Debra
20	19	W.C. Allen
20	21A	Henry L. Jr. or Joanne W. Wilder Lottie E. Hawkins & Linda Marie Jones & Ralph & Ralph
20	21	Montell Hawkins, Jr.
20	22	Adrian L. & ZoAnn S. Williams
20	23	Adrian L. & ZoAnn S. Williams
20	50	Rawley D. or Dolly B. Arlington
20	51	Margaret Hanlon Newton
20(2)	2A	Michael M. Newton
20(2)	3	Walter Taylor
20(3)	3	Billy S. Smith, Jr.
20(4)	2	Mabel M. Gay
20(4)	3	Willie Joe Prosser
20(8)	7	Eugene R. Joy, Sr. & Joyce C. Leis
20(8)	8A	Gerald J. Laporte
20(8)	9	Jeremiah Duvall
20(8)	10	Jeremiah Duvall
20(14)	3	Timothy C. or Amy J. Wenger
20(14)	4	John N. or Cheryl W. Irby
20(14)	6	James B. Joyner, Sr. Sr.
20(14)	7	James B. Joyner, Sr. Sr.
20(14)	9	Richard G. or Carol R. Glass
20(14)	10	Carl G. Allar or Lon Ann Patton

Recyc SystemsTM

Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LUWCA 1-6

SOIL MAP





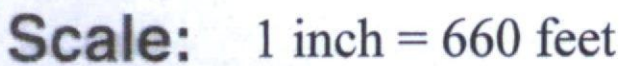
Scale: 1 inch = 660 feet

LUWCA 7-8

SOIL MAP



Inc.



LUWCA 9

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Farm Number: 2785

Tract Number: 912

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions

s 878 feet

1,410 1,880

Scale: 1 inch = 660 feet

LUWCA 1-6

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

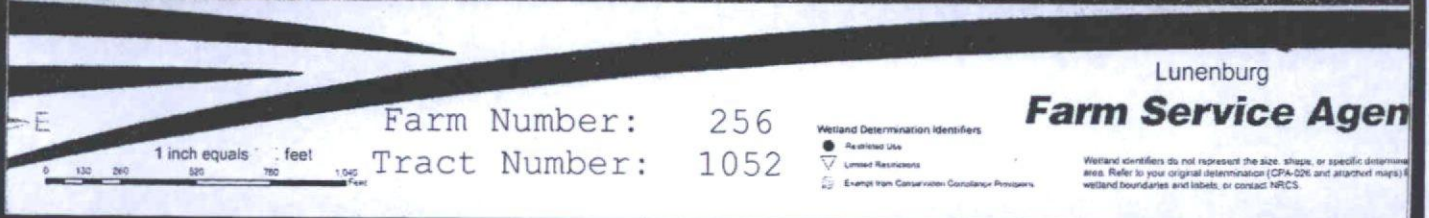
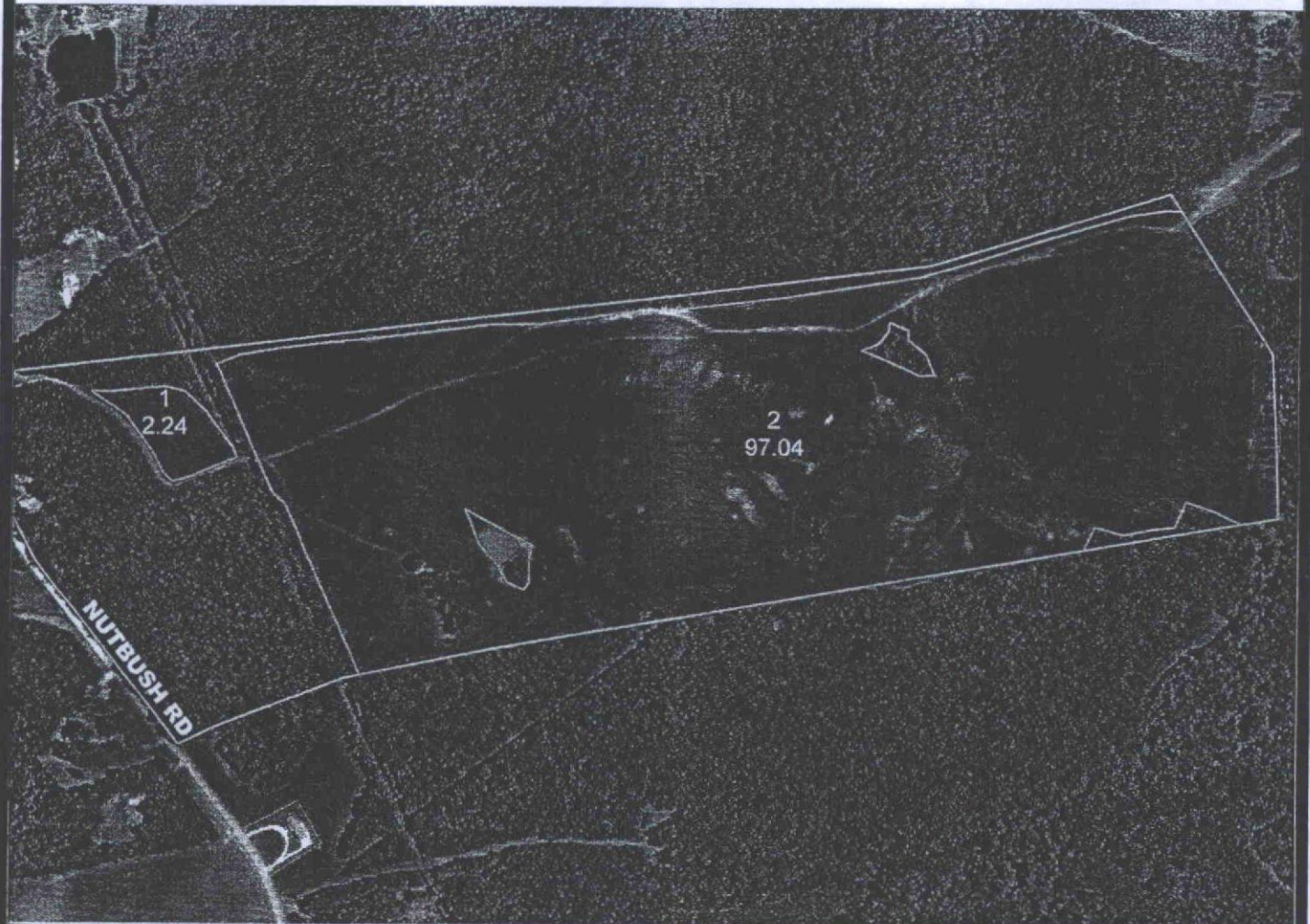
LUWCA 7—8

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LUWCA 9

AERIA . MAP



Legend for Site Plan

H/W

House and Well

W

Sp

Well / Spring



Perennial Streams & Surface



Wet Spot



Intermittent Stream / Drainage



Trees and Woods



Private Drive



Rock / Rocky Area



Sinkhole



Severely Eroded Spot



State Road



Field Boundary / Fence



Property Line



SL

Slope

FF

Frequent Flooded Soil

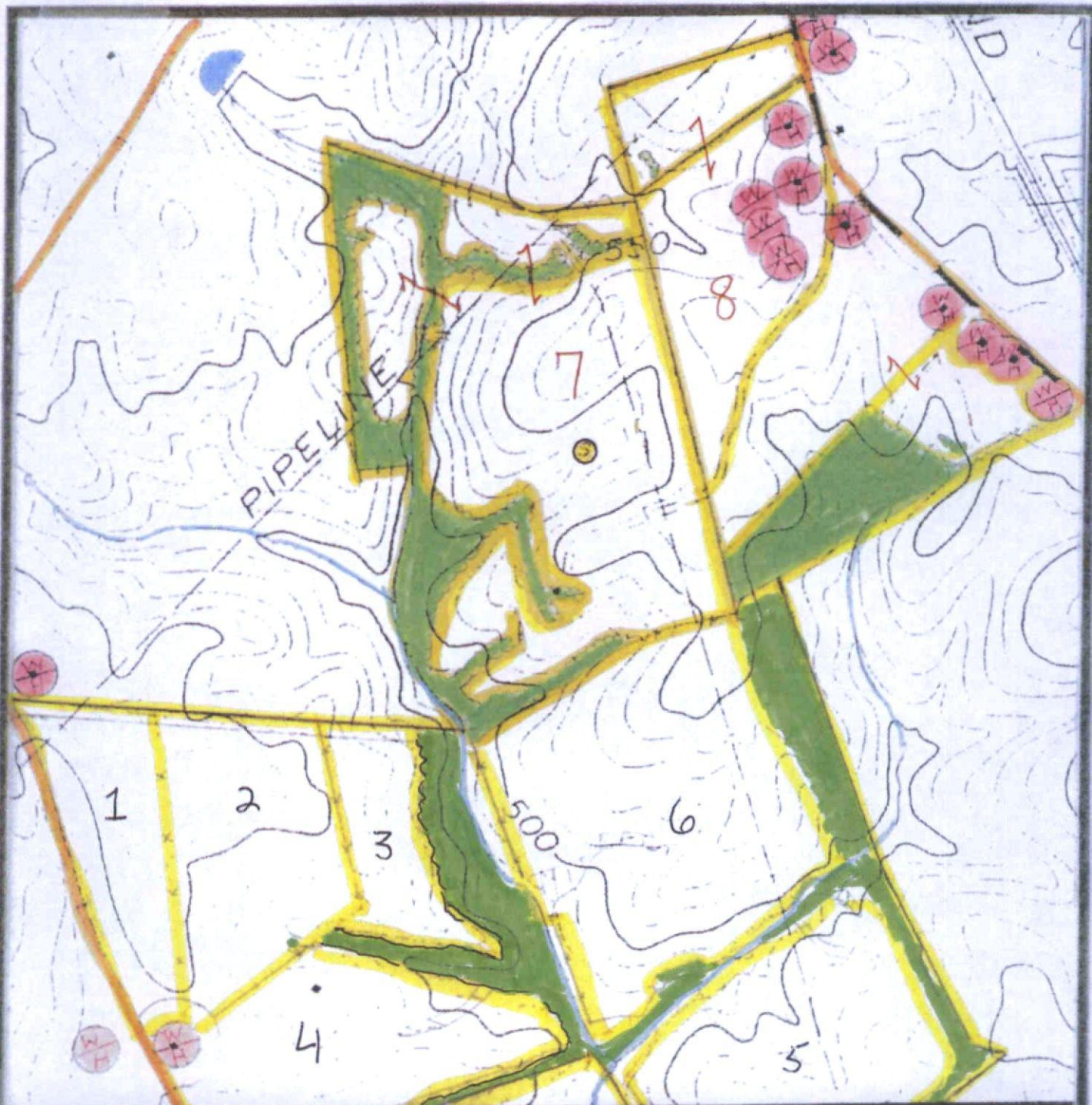


Scale: 1 inch = 660 feet

LUWCA 1 - 6

SITE PLAN





Scale: 1 inch = 660 feet

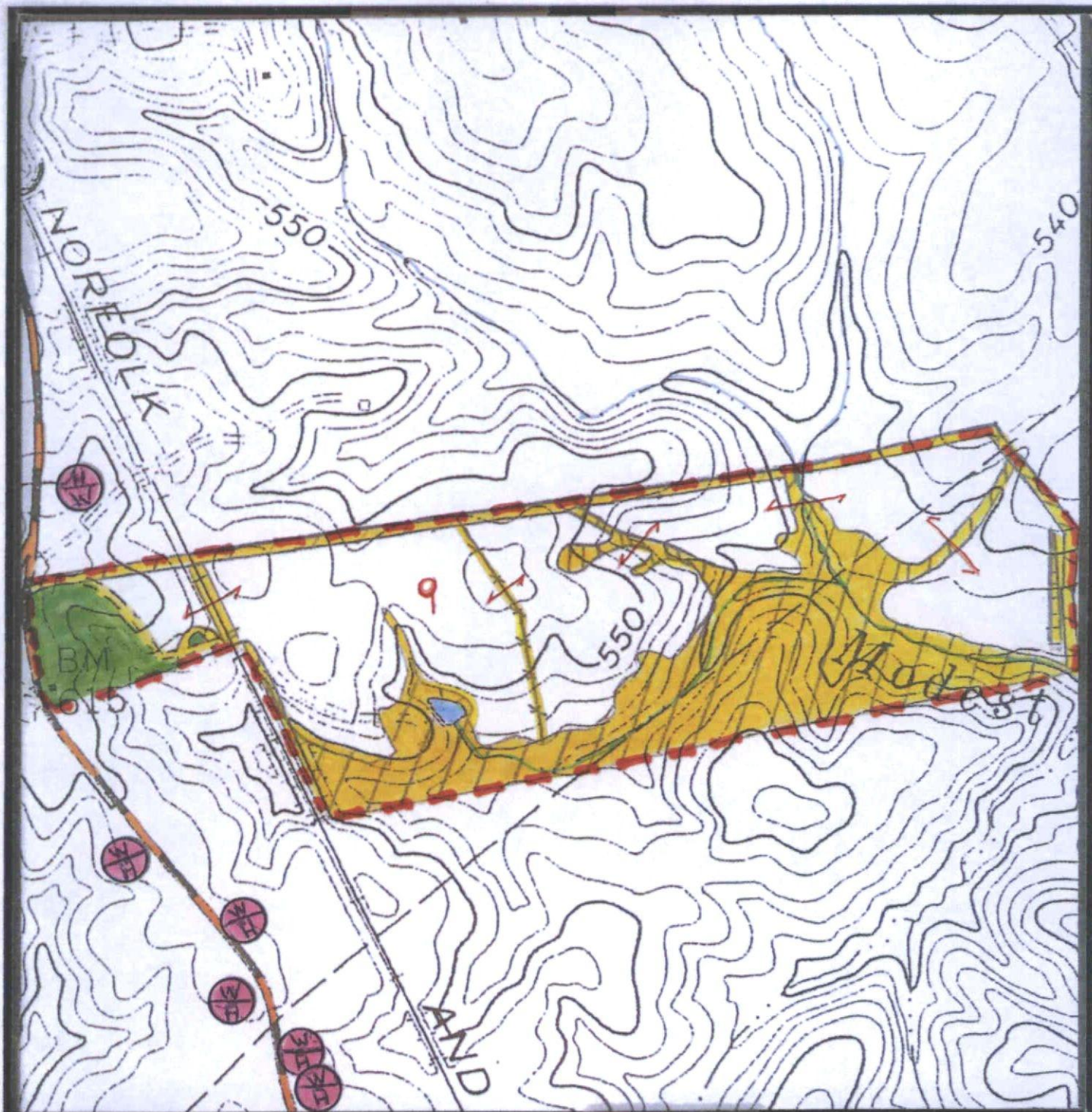
LUWCA 7 & 8

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

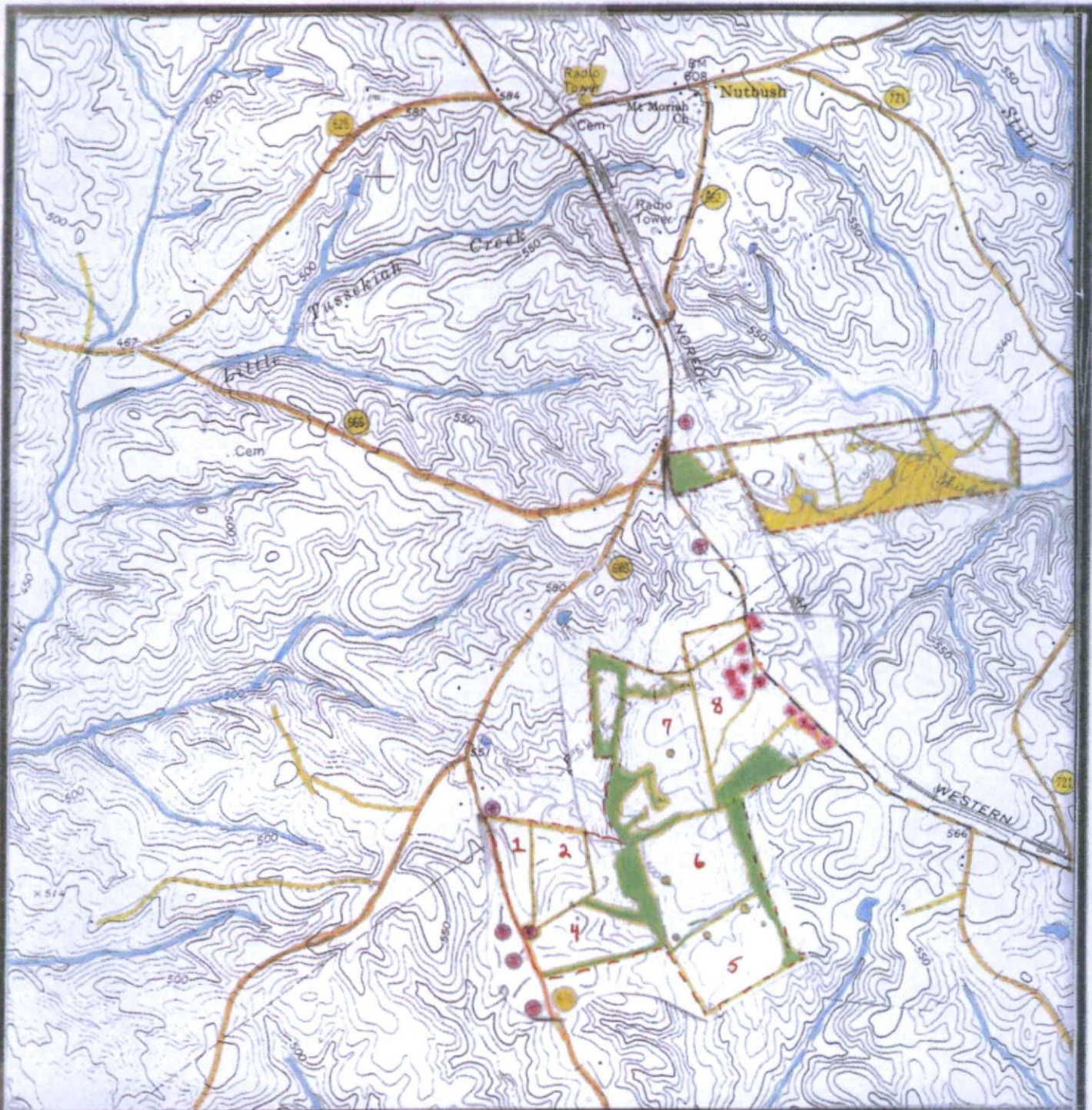
LUWCA 9

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2,000 feet

LUWCA 1-9

TOPOGRAPHIC MAP

